

Uvijet KN

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The Uvijet KN range is a high quality UV curable inkjet system, for piezo drop-on-demand printheads specifically developed for use with the Acuity Series of printers from Fujifilm.

The inks offer excellent dot reproduction, light-fast colors and will adhere to a range of rigid and flexible uncoated materials.

High quality UV curable inkjet system

The Uvijet logo features the word "Uvijet" in a bold, italicized sans-serif font. The letter "v" is stylized with a red diagonal stroke through it.

Uvijet KN Ink Series Features

The main features are:

- High performance conventional UV ink system
- Good adhesion to rigid plastic substrates
- High satin finish
- Excellent color gamut
- Excellent inter-coat lay for back lit and solid prints
- Recommended for indoor and external applications
- Suitable for use on the Acuity Series of printers from Fujifilm

CURING

Excellent cure and adhesion are achieved immediately. However, maximum adhesion, chemical, scuff and scratch resistance may not be obtained until 24 hours after initial curing.

The actual level of cure will depend upon ink thickness, substrate and the UV curing lamps being used. Superior cure may be obtained by reducing the print speed to increase the overall UV dose.

PRE-PRODUCTION TESTS

Uvijet KN ink is formulated to adhere to most major brands of plastic, polypropylene and polyethylene materials with a surface energy level of 42 dynes/cm or higher. However, it is strongly recommended that all substrates are tested before a commercial run.

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PLASTICS

Some plastic substrates may contain lubricants which, like plasticizers, may impair adhesion and block resistance for a considerable time after printing. There may also be residues from glues and adhesives used on backing sheets. This can be overcome by wiping the surface with isopropyl alcohol (IPA) before printing.

To reduce the risk of problems generated by the build-up of static electricity it is advisable to pass an earthed anti-static brush over the material prior to printing. Allow static generated from protective sheets to dissipate before printing. Ensure that the printer is cited as per recommended humidity/temperature recommendations 40 - 70% RH, 64°F to 86°F (18°C to 30°C).

CHEMICAL AND ABRASION RESISTANCE

Uvijet KN inks have good chemical and excellent abrasion resistance.

OUTDOOR USE

Accelerated weathering tests have been carried out in a Xenon Arc Weatherometer set to the SAEJ1960 standard. Under these conditions the accelerated weathering of Uvijet KN inks equates to approximately 12 months outdoor exposure in a temperate climate, such as North America. If finished prints will be subjected to outdoor exposure exceeding 12 months, the use of an overprint clear or over-laminate is strongly recommended.

STORAGE

Uvijet KN ink should not be stored in direct sunlight or near heat sources and should be kept away from peroxides. For optimum shelf-life, products should be stored at moderate temperatures between 41°F to 86°F (5°C to 30°C). Storage outside of these temperatures may lead to deterioration in the performance of the products.

When stored in a cool environment the inks are expected to have a shelf-life of 12 months from date of manufacture.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.

Uvijet KN has gained UL GREENGUARD Gold Certification.

This helps manufacturers create - and helps buyers identify - interior products and materials that have low chemical emissions. GREENGUARD Certification is part of UL Environment, a business unit of UL (Underwriters Laboratories). GREENGUARD Certification. More detail here: ul.com/gg



APPLICATION RANGE

The Acuity Series of UV flatbed printers and Uvijet KN ink combine to create a world of printing opportunities.

Uvijet KN inks are designed to decorate a wide range of uncoated media, including:

Adhesion Chart

Media Type	Adhesion Characteristics
Polycarbonate	★ ★ ★
Styrene	★ ★ ★ ★
Acrylic	★ ★ ★
APET	★ ★ ★ ★
Priplak	★
Correx	★
Dibond	★ ★
PVC Foam Board	★ ★ ★ ★
Display Board	★ ★ ★ ★
Semi Rigid PVC	★ ★ ★ ★
Self-Adhesive PVC	★ ★ ★ ★
PVC Banner	★ ★ ★ ★

Excellent (★★★★) Good (★★★) Fair (★★) Poor (★)
Note: Some media may require an adhesion promoter for optimal performance.

SPECIFICATIONS: UVIJET KN INK SERIES

Uvijet KN Color Range

- ▶ KN - 215/2L - Cyan
- ▶ KN - 052/2L - Yellow
- ▶ KN - 004/2L - Black
- ▶ KN - 867/2L - Magenta
- ▶ KN - 335/2L Light Magenta
- ▶ KN - 255/2L Light Cyan
- All are available in 2L sealed pouches
- Also available:
 - ▶ KN - 391/1L - Clear
 - ▶ KN - 021/1L - White
- Available 1L sealed pouches
- ▶ QV - 100/5L - Head Conditioner
- ▶ ZE - 1000/1 - Adhesion Promoter
- ▶ ZE - 1000/4 - Adhesion Promoter
- ▶ ZE-720/4 - Adhesion Promoter for Coroplast
- ▶ ZE - 680/4 - Adhesion Promoter for Acrylics

Safety & Handling

Uvijet KN Inks

- ▶ Have a flash point greater than 131°F/55°C and are therefore not classified as 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).
- ▶ Comprehensive information on the safety and handling of Uvijet ink is given in the appropriate Fujifilm Safety Data Sheets. Sheets available upon request.

Environmental Information

Uvijet KN Inks

- ▶ Does not contain ozone depleting chemicals as described in the Montreal Convention.
- ▶ Are formulated free from aromatic hydrocarbons.
- ▶ Are free from any volatile solvent and can therefore be considered to have less impact on the environment when compared to solvent based products.

Fujifilm

- ▶ Has certification to the International Environmental Standard ISO 14001.
- ▶ Has certification to the Quality Management Standard, ISO 9001.
- ▶ Has certification to the Occupational Health and Safety Standard, ISO 18001.
- ▶ Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- ▶ Research and development team-work to an in house Health Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- ▶ Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.

Uvijet KN ink approved for Nordic Swan Ecolabelled printers.